

CLAIMS

What is claimed is:

1. A method for executing a single directive of a program in a programmable logic controller, comprises the steps of:
 - 5 confirming the PLC in a single directive mode;
 - receiving an execution command aimed at the program by the PLC;
 - executing a directive of the program by the PLC; and
 - stopping executing the program and waiting to receive another the execution command to execute a next directive after executing the directive of the program by the PLC.
- 10 2. The method of claim 1, wherein the result of the step of confirming the PLC in a single directive mode is no, executing all the directives of the program in order directly.
3. The method of claim 1, wherein the step of stopping executing the program and waiting to receive another the execution command to execute a next directive after
- 15 executing the directive of the program by the PLC, if the PLC receiving no another the execution command, the PLC stays in a standby mode.
4. The method of claim 3, wherein as the PLC stays in a standby mode, the PLC stops the single directive mode directly.
5. The method of claim 1, wherein after the step of stopping executing the program
- 20 and waiting to receive another the execution command to execute a next directive after executing the directive of the program by the PLC comprises a step of determining the directive is the last of the program by the PLC.
6. The method of claim 5, wherein the result of the step of determining the directive is the last of the program by the PLC is yes, then the PLC stops the single directive mode,
- 25 and the result of the step of determining the directive is the last of the program by the PLC is no, then the PLC continues waiting to receive another the execution command to execute a next directive after the directive of the program.